

Item	L (cm)	w (cm)	h (cm)	Volume (cm <sup>3</sup> )	m (g)	Dens g/ cm <sup>3</sup>
Gray Box						
Red Box						
Phy Book						
Chem Book						



$$8.8 \text{ cm} = L$$

$$h = 4.4 \text{ cm}$$

$$\text{grams} \quad \frac{1.4 \text{ lbs}}{1} \times \frac{\cancel{\text{kg}}}{2.2 \text{ lbs}} \times \frac{1000 \text{ g}}{\cancel{\text{kg}}} = \underline{636.36 \text{ g}}$$

$$\text{Red} \quad 1.8 \text{ lbs} \quad = \underline{818.18 \text{ g}}$$

$$\text{Physics} \quad 4.4 \text{ lbs} \quad = \underline{2000 \text{ g}}$$

$$\text{Chem} \quad 4.8 \text{ lbs} \quad = \underline{2181.82 \text{ g}}$$

$$\text{density} = \frac{\text{mass}}{\text{Volume}}$$

$$d = \frac{m}{V}$$

$$\text{feathers} = \frac{100\text{g}}{20\text{cm}^3} = 5\text{g/cm}^3$$

$$\text{Gold} = \frac{100\text{g}}{1\text{cm}^3} = 100\text{g/cm}^3$$